

 Roland

CAMM *JET* *PRO II*

Sign Maker by Roland DG Corporation

Model
CJ-540



What Are You Waiting For?



Model CJ-540 **Print & Cut**
Maximum media acceptance: 1371 mm (54")
Maximum printing width: 1346 mm (53")

CAMM JET PRO II

Sign Maker by Roland DG Corporation



Versatile Printer / Contour Cutter Prints up to 28 m²/hr (300 sqft/hr)

The CAMM JET PRO II combines all of the high-performance printing features of the Hi-Fi JET PRO II large format inkjet printer and Roland's renowned CAMM-1 cutting technology into one amazing print/cut device. The CAMM JET PRO II delivers unprecedented versatility with more features than ever and less time waiting for prints.

- Precision contour cutting
- Prints up to 28 m²/hr (300 sqft/hr)
- True 1440 X 1440 dpi resolution
- Variable droplet technology

- 6-color printing—CMYK + LcLm or CMYK + OrGr
- Revolutionary new Roland SelectColor RIP included
- Ethernet connectivity



Shift into Top Gear

Blazing Print Speed

Ever feel like you've been waiting all day for a print? Not with the CAMM JET PRO II. It can print up to 28 m²/hr (300 sqft/hr). That's not draft mode; that's a unique, sign-quality mode created by Roland especially for sign, exhibit and POP makers! Printing a large 1.355 m banner now takes only 14 minutes. But blazing print speed is only part of the story. The PRO II's remarkable production velocity is the result of numerous technological enhancements.

Throughput comparison

Media	Mode	Printing Time
Synthetic matte paper (YP-M-1300)	High Speed	28 m ² /hr (300 sqft/hr)
	Standard	14 m ² /hr (150 sqft/hr)
	High Quality	7 m ² /hr (75 sqft/hr)
Hi gloss white film (PET-G-1320)	High Speed	14 m ² /hr (150 sqft/hr)
	Standard	7 m ² /hr (75 sqft/hr)
	High Quality	3.6 m ² /hr (39 sqft/hr)

New Wider Heads—360 Nozzles per Color

Six one-inch precision heads cover a large printing area while firing 360 nozzles per color.

High-Speed Data Processing and Transfer

CAMM JET PRO II supports Ethernet 100Base-TX networks for high-speed data transfer and workgroup operation. Included with the CAMM JET PRO II, the new, more powerful Roland SelectColor software RIP (RSC) has been designed especially for the PRO II family.*1) The RIP engine incorporates more horsepower and efficiency for faster data processing. RSC also provides more powerful simultaneous RIP&Print capabilities to speed up your daily operation.



*1) RSC is compatible with Windows® 2000/XP as a network server or stand-alone, and Windows® 98/Me/2000/XP as network client.

Unsurpassed Print Quality

True 1440 X 1440 dpi Resolution

The CAMM JET PRO II combines Piezo print heads, providing precise droplets under stable control, and variable droplet technology to achieve stunning color reproduction. The crisp detail and high fidelity of the CAMM JET PRO II's true 1440 X 1440 dpi resolution make it ideal for enlargements of fine art, photography, or mural-size graphics. Downy soft hairs, finely textured human skin—these are but a sample of the CAMM JET PRO II's amazing ability to reproduce photographic quality.



technology delivers truly breathtaking output with beautifully smooth and dot-free tones even at high speed. In combination with RSC, variable droplet technology delivers truly uncompromising quality for the most discerning applications.



IntelligentPrintControl: A New Standard in Inkjet Quality and Ease of Use

Included in RSC, IntelligentPrintControl delivers a major advance in printing quality combined with unbelievable ease-of-use. All you need to do is select the media, preferred print quality and speed from the menu. IntelligentPrintControl automatically determines the optimum dot size, dot combinations, dot placement, tone curve, and the proper amount of ink for each individual media.

Variable Droplet Control: For Infinite Possibilities

Variable droplet technology utilizes micro-precise ink droplets of three different sizes depending on the type of output. This state-of-the-art

Precision Contour Cutting

Once an image has been printed, the CAMM JET PRO II can automatically contour cut your design without having to reload or reposition the media. With its curve smoothing function, the CAMM JET PRO II cuts elegant arcs and curves with incredible accuracy at speeds up to 600 mm/sec (24"/sec). Should you need to laminate your work, "Quadralign" – Roland's unique 4-point optical registration system allows you to remove a print, laminate and then reload it for perfect contour cutting. The CAMM JET PRO II realigns the



cutting path and even compensates for skew and distortion.*2)

*2) A large amount of distortion or poor reloading may affect contour cutting results.



Automatically generates crop marks at the four corners.

Allows you to remove the print, laminate and then reload the media.

Recalculates the cutting path by adjusting to the crop mark position changes.

Unsurpassed Color Reproduction

Precise Color Management

Designed to maximize performance of the CAMM JET PRO II, RSC provides professional quality printing including precision color management. RSC is PostScript® compatible, making the CAMM JET PRO II easy to use with Adobe® Photoshop®, Adobe® Illustrator®, Macromedia FreeHand®, QuarkXPress™ and other popular graphics software.

Two 6-Color Printing: Choose from LcLm and OrGr*3)

The CAMM JET PRO II offers a choice of 6-color printing. CMYK plus light cyan (Lc) and light magenta (Lm) is ideal for faithfully reproducing skin tones, soft pastels and metallic surfaces with superb, natural color gradations. CMYK plus orange (Or) and green (Gr) delivers unrivaled color gamut and the ability to match spot colors with confidence. The CAMM JET PRO II uses two 220 cc ink cartridges per color.



*3) LcLm and OrGr inks cannot be used simultaneously.

Pigment and Dye*4)

Another key to the stunning color produced by the PRO II is our Roland pigment ink which offers a combination of exceptionally bright color as well as UV stability. It ensures that your posters and signs maintain their beauty longer, even outdoors*5). For vivid printing of short-term indoor signs and banners, Roland also offers dye ink*6).



*4) Pigmented and dye-based inks cannot be used simultaneously.

*5) Lamination is required to protect output from abrasion, acid rain or other harsh environmental conditions.

*6) Dye-based ink is available in CMYK plus LcLm only.

Roland Media – Maximum Performance with Maximum Choices

Media selection is key to the usefulness of any printer. Roland offers a wide range of Roland-certified media: fine art papers and artist's canvas, backlit film, PET film, matte and gloss papers, Tyvek®, banner, adhesive-backed vinyl, Polysilk cloth and more. Every one has been optimized for the print speeds and capabilities of the CAMM JET PRO II, taking full advantage of the superior performance of our pigmented and dye-based ink.

Ease of Use & Roland Reliability

Quick and Easy Contour Cutting

The CAMM JET PRO II makes quick work of contour cutting window signs, decals, labels, point of purchase displays and packaging prototypes. It can also function independently as a stand-alone vinyl cutter for sign or display production. Printing and cutting operations can be handled simultaneously from a variety of software applications including Adobe® Illustrator®, Adobe® PageMaker®, CorelDRAW®, and QuarkXPress™. Simply draw a line for contour cutting and assign the line to be cut.

Enhanced Features to Simplify Operation

Roland products have always been known as easy to operate and reliable. The CAMM JET PRO II offers users an ideal combination of automation and user-selectable controls.

- Adjustable 3-level head height for handling a wide variety of media from artists' canvas to film.
- Easy-to-replace, clean-handling ink cartridges.
- Printer warns and pauses a job when ink is running low – no partial print waste.



Easy-to-use ink cartridges

- Translucent cover to observe printing in progress.
- Windows on the media flanges to confirm remaining media.
- Auto-sheet cutter for separating output after printing.

Mechanical Improvements for Even Greater Reliability

Roland has integrated all our technical experience and know-how into every single component of the CAMM JET PRO II.

- The heavy-duty carriage and newly developed linear motion guide provide smoother movement even at high speed.
- A wider bed and built-in media edge clamps improve media tracking.
- An encoder attached directly to the grit roller shaft and a digital servomotor provide more precise media feeding resulting in superior image sharpness from exact dot placement.
- Improvements to the print head cleaning system promote longer life with less contamination.



Built-in media edge clamps



PRO II head cleaning system

Roland SelectColor™ RIP

Designed especially for the PRO II family, the revolutionary new Roland SelectColor (RSC) RIP now makes production easier than ever.

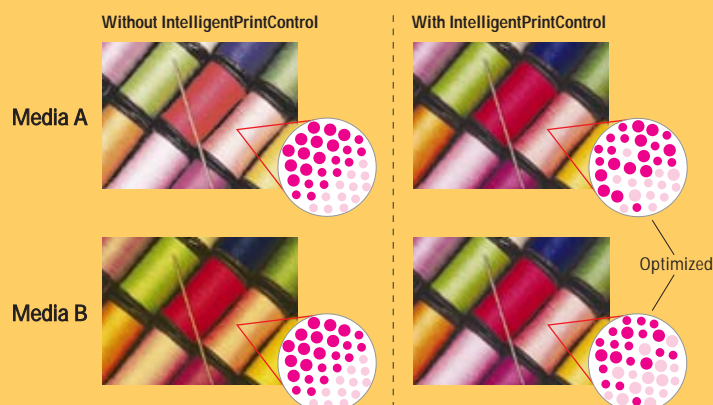


Roland
SelectColor™

IntelligentPrintControl

One of RSC's unique features, IntelligentPrintControl provides a new standard for effortless high-quality printing. Even subtle shading and gradients are represented faithfully with minimal color differences between lower and higher resolutions. Just choose the ideal mode for your print from High quality, Standard or High speed. IntelligentPrintControl automatically determines the optimum dot size, dot combinations, dot positioning, tone curve, and the amount of ink for each individual media.

IntelligentPrintControl (Image)



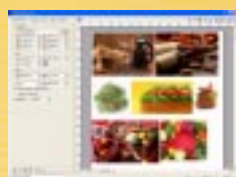
Layout Features

Scaling, rotation, automatic layout and several powerful, new features are included.

- Tiling allows you to break your job up into tiles automatically and adjust the breaks manually.
- Cropping allows you to trim your job to fit a specific size requirement.
- RSC lets you nest multiple jobs to maximize media usage.
- Automatic Step and Repeat of multiple pages allows you to layout brochures and manuals efficiently.
- A label-printing feature allows you to automatically attach notes including RIP settings to your work.



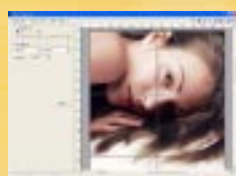
Automatic Layout



Manual Layout



Automatic Step and Repeat



Tiling

More Reasons Why RSC Is The RIP of Choice

- Supports custom ICC input and output profiles generated from any industry standard profiling software.
- Separate color rendering intents (CRDs) can be applied to different elements of a PostScript document. Apply perceptual, saturation, relative or absolute colorimetric CRDs to bitmap, vector, text and gradient elements.
- You can print a CMYK profile with CMYK plus LcLm to optimize your output without rebuilding your files.
- Supports embedded profiles.
- Features test swatch printing for spot color matching. RSC lets you fine tune the tone curve of all six colors individually to achieve even greater precision.
- Provides simultaneous RIP&Print capability.

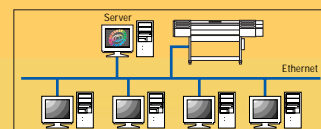
PostScript® Support

PostScript support ensures that the images you create in your graphic design applications will print with perfect fidelity. In addition to PostScript applications, you can print directly from PDF, TIFF, JPEG, EPS and PS files.*7) Simply drag and drop the file into RSC for speedy output.

*7) Restrictions may apply to output of some EPS, PDF and PS files.

Office Network Support

RSC works as either a network server or standalone print station. Connecting the CAMM JET PRO II to an office network for workgroup operation enhances efficiency.



Specifications

Model		CJ-540	
Printing / Cutting method		Piezo ink-jet method/media-moving method	
Printing / Cutting width		185 to 1346 mm (7-5/16 to 53 in.)	
Acceptable media widths		210 to 1371 mm (8-5/16 to 54 in.)	
Conditions for usable media		Cuttable media thickness: 0.08 to 0.22 mm (0.00315 to 0.00866 in.) (depending on material composition) Maximum cuttable media thickness including base paper: 0.4 mm (0.0157 in.) Maximum printable media thickness including base paper: 1.0 mm (0.039 in.) (when head is raised to maximum) Maximum diameter for roll media: 180 mm (7-1/16 in.) Core inner diameter for roll media: 50.8 mm (2 in.) or 76.2 mm (3 in.) Maximum weight for roll media: 20 kg (44.1 lb.)	
Ink cartridges	Pigmented ink	Exclusive pigmented ink cartridges	
	Capacity	220 cc ±5 cc	
	Colors	The six colors black, cyan, magenta, yellow, light cyan, and light magenta or the six colors black, cyan, magenta, yellow, orange, and green	
	Dye-based ink	Exclusive dye-based ink cartridges	
	Capacity	220 cc ±5 cc	
		Colors	The six colors black, cyan, magenta, yellow, light cyan, and light magenta
Printing resolution		Max. 1440 dpi	
Distance accuracy (when printing)		Error of less than ±0.3 % of distance traveled, or 0.3 mm, whichever is greater (at Roland PET-film, print travel: 1 m (39-3/8 in.))	
Acceptable tool		Cutter (blade and blade holder): Special blade for CAMM-1 series	
Cutting speed / force / offset		10 to 600 mm/s (10 to 300 mm/s in the media-feed direction) / 30 to 300 gf / 0.000 to 1.500 mm (0 to 0.0591 in.)	
Software resolution (when cutting)		0.025 mm/step (0.00984 in./step)	
Distance accuracy (when cutting)		Error of less than ±0.4 % of distance traveled, or 0.3 mm, whichever is greater When distance correction has been performed (when the setting for [CALIBRATION] - [CUTTING ADJ.] has been made): Error of less than ±0.2 % of distance traveled, or 0.1 mm, whichever is greater	
Repetition accuracy (when cutting)		0.1 mm or less (excluding stretching/contraction of the media) Range for assured repetition accuracy For media with a width exceeding 610 mm (24 in.): Length 4000 mm (157-7/16 in.) For media with a width of 610 mm (24 in.) or less : Length 8000 mm (315-15/16 in.)	
Repetition between printing and cutting		±0.5 mm (0.0197 in.) max. at 25 °C (77 °F) (excluding possible shift caused by expansion/contraction of the media and/or by reloading the media, and provided that media length is under 3000 mm (118-1/16 in.))	
Printing heads cleaning		Automatic cleaning and manual cleaning	
Interface		Ethernet 10Base-T or 100Base-TX and Bidirectional parallel interface (compliant with IEEE 1284: Nibble mode, ECP mode (non compression))	
Power-saving function		Auto-sleep	
Power consumption	Printing mode	Maximum: 2.0 A/100 V to 240 V ±10 % 50/60 Hz	
	Standby mode	Maximum: 0.6 A/100 V to 240 V ±10 % 50/60 Hz	
Acoustic noise level	Printing mode	65 dB (A) or less (According to ISO7779)	
	Standby mode	40 dB (A) or less (According to ISO7779)	
Dimensions (with stand)		2699 mm [W] × 742 mm [D] × 1300 mm [H] (106-5/16 in. [W] × 29-1/4 in. [D] × 51-3/16 in. [H])	
Weight (with stand)		152 kg (335 lb.)	
Environment	Power on	Temperature: 15 to 32 °C (59 to 89.6 °F), Humidity: 35 to 80 % (non-condensing)	
	Power off	Temperature: 5 to 40 °C (41 to 104 °F), Humidity: 20 to 80 % (non-condensing)	
Included items		Roland SelectColor™ CD-ROM: 1, Roland-PrintServer CD-ROM: 1, power cord : 1, drain bottle: 1, blade: 1, blade holder: 1, replacement blade for separating knife: 1, cleaning kit: 1, user's manual: 1, Roland PrintServer network settings guide: 1	

Options

Pigmented ink	FPG-MG	Magenta, 220 cc
	FPG-YE	Yellow, 220 cc
	FPG-CY	Cyan, 220 cc
	FPG-BK	Black, 220 cc
	FPG-LC	Light cyan, 220 cc
	FPG-LM	Light magenta, 220 cc
	FPG-OR	Orange, 220 cc
	FPG-GR	Green, 220 cc
Dye-based ink	FDY-MG	Magenta, 220 cc
	FDY-YE	Yellow, 220 cc
	FDY-CY	Cyan, 220 cc
	FDY-BK	Black, 220 cc
	FDY-LC	Light cyan, 220 cc
	FDY-LM	Light magenta, 220 cc
Cleaning liquid	CJ-CL	1 pc.
Blades	ZEC-U1005	For signage vinyl in general, 5 pcs.
	ZEC-U5025	For thick, reflective and fluorescent vinyl, 5 pcs.
Blade holders	XD-CH3	Blade holder with blade extention adjuster, made of resin
	XD-CH2	Blade holder with blade extention adjuster, made of aluminum

Optional Take-up Roller automatically rolls up media for unattended overnight or oversize output.

Take-up Roller
TU-550 for CJ-540



CJ-540+TU-550

*Automatic rolling function can only be used during printing.

Roland reserves the right to make changes in specifications, materials or accessories without notice. Your actual output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your Roland dealer for details. No guarantee or warranty is implied other than expressly stated. Roland shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products.

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